MOTOROLA
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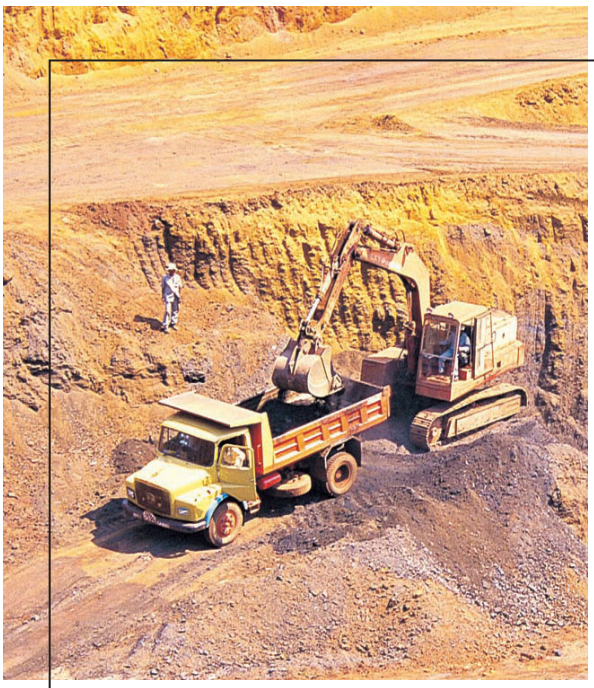

MOTOROLA GM328

THE PRACTICAL MOBILE 2-WAY RADIO

The practical radio is the simple yet high performing two-way radio solution for professionals who need to stay in contact. Its streamlined features include the essentials to keep users communicating steadily and efficiently – including limited signaling capabilities and two customisable function buttons. Motorola's unique X-Pand™ audio enhancement and a large front-projecting speaker ensure clear, crisp sound, even in noisy environments. The practical GM328 radio gives you virtually everything you need to get the job done.

GM328 ACCESSORIES:

AARMN4026
Keypad microphone

RSN4001
13W speaker

HMN3000 Desktop microphone

RLN4857
Push button with remote PTT

OPERATOR FRIENDLY CONTROLS AND FEATURES INCLUDE:

Easy to use
Large control buttons and the multicolored LED indicators provide clear feedback of the radio operating status.

2 Programmable Buttons
Users have the flexibility to dedicate their most frequently used functions to these buttons for instant one-touch access.

Signalling Features
The GM328 offers the following signalling features:
- MDC1200 PTT-ID encode
- MDC1200 Selective Radio Inhibit decode
- DTMF PTT-ID encode

X-PAND(TM) Audio Technology
Motorola's special voice compression and expansion technology called X-PAND enables crisper, clearer and stronger audio quality, allowing you to keep communicating in any noisy environment.

Switchable RF Power Level
The transmit power level can be adjusted to accommodate the users environment. Thus, minimising the risk of interference with other systems.

Repeater/Talkaround Enable/Disable
Freedom to communicate via a repeater for wide area coverage; or bypass a repeater and talk directly to another unit for easy local unit-to-unit communications.

BUILT TO MEET MILITARY SPECIFICATIONS
The GM328 is a commercial quality radio which has been tested to MIL810 (C,D and E) Military Specification Standards including temperature extremes, solar radiation, rain, humidity, salt fog, dust, vibration and shock. These tests were conducted subject to specific military procedures.

Optional Voice Storage
Through an optional voice storage board, the GM328's capabilities can be expanded to the recording and playing back voice messages or personal memos for up to 120 seconds

Voice Operated Transmission (VOX):
For hands-free operation, activate this option using visor microphones.

Programmable Channel Spacing of 12.5/25kHz Mode
Flexible and easy migration of channel spacing requirements in any situation.

External Alarm
Activates the vehicle horn and/or lights on receipt of an incoming call, so you won't miss a call even when away from your vehicle.

Public Address Mode
This feature allows you to use your radio audio as a public address system simply by adding an external speaker and switch fitted and programmed by your dealer.

Data Capable
A modem can be fitted inside a special expansion head, or external to the radio.

Additional features
- Single priority Scan (channel scan)
- remote mount capable

GENERAL	VHF	UHF
Channel Capacity	4	
Typical RF Output	1-25W	1-25W
Frequency	136-174MHz	403-470 MHz 450-527 MHz
Dimensions (H x W x L)	56 mm x 176 mm x 177 mm (2.2" x 6.93" x 6.97")	
Weight	1.43 kg. (3.15 lbs)	
Current Drain: Standby Rx @ rated, external 8 ohm speaker Transmit	 .3 A 1.5 A 7A @ 25W	 .3 A 1.5 A 8 A @ 25W

TRANSMITTER	VHF	UHF
Frequencies	136-174 MHz	403-470 MHz / 450-527MHz
Channel Spacing	12.5/20/25 kHz	
Frequency Stability (-30° C to +60° C, +25° Ref.)	± 2.5 ppm	
Power Output	1-25W	1-25W
Modulation Limiting	±2.5 @12.5 kH / ±4.0 @ 20kHz / ±5.0 @25 kHz	
FM Hum & Noise	-40 dB 12.5 kHz / -45 dB 25 kHz	
Conducted/Radiated Emission	-36 dBm < 1 GHz / -30 dBm > 1 GHz	
Adjacent Channel Power	-60 dB @ 12.5 kHz / -70 dB @ 25 kHz	
Audio Response	TIA 603 & ETS300 & CEPT 84 Annex 2	ETS 300 / CEPT 84 Annex 2
Audio Distortion	3% typical	

RECEIVER	VHF	UHF
Frequencies	136-174 MHz	403-470 MHz 450-527 MHz
Channel Spacing	12.5/20/25 kHz	
Frequency Stability (-30° C to +60° C, +25° Ref.)	± 2.5 ppm	
Sensitivity (12 dB SINAD)	0.3 µV 0.23 µV typical	
Intermodulation	75 dB @ 12.5 kHz 78 dB @ 25 kHz	75 dB @ 12.5 kHz 75 dB @ 25 kHz
Adjacent Channel Selectivity	65 dB @ 12.5 kHz 80 dB @ 25 kHz	65 dB @ 12.5 kHz 75 dB @ 25 kHz
Spurious Rejection	75 dB @ 12.5 kHz VHF 80 dB @ 25 kHz VHF	70 dB @ 12.5 kHz 75 dB @ 25 kHz
Rated Audio (external audio with 4 ohm speaker)	3W Internal / 7.5W & 13W External	
Audio Distortion @ Rated Audio	3% typical	
Hum and Noise	-40 dB 12.5 kHz / -45 dB 25 kHz	
Audio Response	TIA603 & ETS300 & CEPT 84 Annex 2	
Conducted Spurious Emission	-57dBm < 1 GHz / -47 dBm > 1 GHz	

Availability subject to country's law and regulation.
Radios meet applicable regulatory requirements.
All specifications shown are subject to change without notice.
Specifications are not representative of all radios and may vary in different radios.

Portable Military Standards 810 C		
Applicable MIL-STD	Methods	Procedures
Low Pressure	500.1	1
High Temperature	501.1	1,2
Low Temperature	502.1	2
Temperature Shock	503.1	1
Solar Radiation	505.1	1
Rain	506.1	2
Humidity	507.1	2
Salt Fog	509.1	1
Dust	510.1	1
Vibration	514.2	8,10
Shock	516.2	1,5

Portable Military Standards 810 D		
Applicable MIL-STD	Methods	Procedures
Low Pressure	500.2	2
High Temperature	501.2	1,2
Low Temperature	502.2	1,2
Temperature Shock	503.2	1
Solar Radiation	505.2	1
Rain	506.2	2
Humidity	507.2	2,3
Salt Fog	509.2	1
Dust	510.2	1
Vibration	514.3	1
Shock	516.3	1

Portable Military Standards 810 E		
Applicable MIL-STD	Methods	Procedures
Low Pressure	500.3	2
High Temperature	501.3	1,2
Low Temperature	502.3	1,2
Temperature Shock	503.3	1
Solar Radiation	505.3	1
Rain	506.3	2
Humidity	507.3	3
Salt Fog	509.3	1
Dust	510.3	1
Vibration	514.4	1
Shock	516.4	1

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For more information, please contact:

One-Year Warranty
Each Motorola radio is backed by a one-year warranty on radio parts and labour.

Accelerated Life Testing
Motorola's Accelerated Life Testing simulates five years of hard use in real life, EIA RS-316B in Shock, Vibration, Dust, Humidity, IP54 for Sealing.

MIL-STD 810C, D and E
Stamp of approval from the U.S. Military for use in rough environments.

ISO 9001 Standard
Compliance with ISO 9001 Standard - an international quality system assurance on design, development, production, installation and servicing of a product.